

**S5 Table. PCR primers used for restriction-free cloning of *cdtV* genes and construction of *cdtV-B* deletion mutant**

Primer designation	Sequence 5'-3'	<i>cdtV</i> amplicon (size)
F-cdtA-p23	<u>TTTGTAACTTAAGAAGGAGATACATATGG</u> CTAATAAACACACACCTATTTTATA	<i>cdtV-A</i> (776 bp)
R-cdtA-p23	<u>TTCCTTCGGGCTTGTTAGCAGCCGGATCTCAT</u> TGTCGCCTCCTGCTGAATGCCTATC	
F-cdtB-p23	<u>TTTGTAACTTAAGAAGGAGATACATATGA</u> AAAAATATATTATATCTGATAGTA	<i>cdtV-B</i> (809 bp)
R-cdtB-p23	<u>TTCCTTCGGGCTTGTTAGCAGCCGGATCTTAT</u> CGTCTGGAAACGCCAACAGGGTAATG	
F-cdtC-p23	<u>TTTGTAACTTAAGAAGGAGATACATATGA</u> AGAGATTAATAATTATTGTAACATATG	<i>cdtV-C</i> (545 bp)
R-cdtC-p23	<u>TTCCTTCGGGCTTGTTAGCAGCCGGATCTAA</u> ATAATAGGCGATTCACTATTAAATGG	
F-cdtA-p23	<u>TTTGTAACTTAAGAAGGAGATACATATGG</u> CTAATAAACACACACCTATTTTATA	<i>cdtV-ABC</i> operon (2142 bp)
R-cdtC-p23	<u>TTCCTTCGGGCTTGTTAGCAGCCGGATCTAA</u> ATAATAGGCGATTCACTATTAAATGG	
F-del-cdtB	CCGGACGTCAAGAGGGCTATCATAATGAAGA	<i>cdtV-ACAB</i> (1333 bp)
R-del-cdtB	CCGGACGTCTATCTGGTTCTATTGGTAGTG	

Underlined are sequences targeting the insertion region of pET23b(+) vector; non-underlined sequences target the indicated *cdtV* genes.